

## PERSONAL INFORMATION

WEBSITE / EMAIL / CITY: jiebao.ca / jiebao995@gmail.com / Montreal, Quebec, Canada

### COMPUTER SKILLS

PYTHON. C++, TERRAFORM, LINUX, AZURE, FASTAPI, K8S, SQLAlchemy, GIT, DOCKER

### **EDUCATION**

#### CURRENT

Mila - Université de Montréal, Montreal, Quebec, Canada

COMPUTER SCIENCE MASTER STUDENT (PART-TIME)

Focus on NLP and Computer Graphics

Realistic Image Synthesis - ECSE 546: A Applied Machine Learning - COMP 551: A

Natural Language Processing with Deep Learning - IFT 6289: A-Fundamentals of Computer Graphics - COMP 557: Current

#### 2015-2021

Concordia University, Montreal, Quebec, Canada

Thesis: Deep Learning for Turbulence Modeling

Master of Applied Science, GPA: 4.0/4.3

Bachelor of Engineering, Aerospace Engineering

### **WORK EXPERIENCE**

## 2022-Current

# Data Engineering Specialist, CAE

Building internal Data Plateform - CAE Data Catalog: Implemented data quality and observability backend. Design data pipelines using event-driven autoscaling, and Spark. Addressed data inconsistencies by automatically informing data producers on best action items. API skills creation for chatbot service.

### 2019-2021

Graduate Student Researcher, COMPUTATIONAL AEROSPACE LAB
Turbulence Modeling Technique using Machine Learning Techniques

Data cleaning, acquisition and analysis using Matlab and Python. Created an end-to-end ML training pipeline for turbulent production and dissipation values. Achieved over 90%  $R^2$  accuracy. Bi-weekly presentations and practiced public speaking as a researcher and teaching assistant - AERO 490.

# **PROJECTS**

### 2023-Current

#### Path Tracer Engine

Implementation from scratch of a Path tracer for global illumination. 3D scenes are generated using next event estimation. Scenes include MIS on Veach's experiment, Stanford Bunny, and Cornell Box. SEE MORE HERE.

### LANGUAGES

FRENCH, ENGLISH, CHINESE (MANDARIN): Fluent

## INTERESTS AND ACTIVITIES

Skateboarding, Snowboard, and River Surfing.